

### DECLARATION - USA PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **DOUBLE-SPIRO ORGANIC COMPOUNDS AND ORGANIC ELECTROLUMINESCENT DEVICES USING THE SAME**; the specification of which is attached hereto;

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above;

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56;

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

#### PRIOR FOREIGN APPLICATIONS

Application	Country	Filing Date	Priority Claimed
2001-23038	KOREA	April 27, 2001	Yes
2001-23039	KOREA	April 27, 2001	Yes

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: **Kong Kyeom Kim**

Inventor's signature: Kim Kong Kyeom Date: Mar. 7, 2002

Residence: #107-703 Expo Apt, Jeonmin-dong, Yusong-ku, Taejeon Korea

Citizenship: **Korean**

Post Office Address: **Same as Residence**

Full name of second inventor: **Sehwan Son**

Inventor's signature: *Sehwan Son*

Date: Mar. 7, 2002

Residence: **#102-704 Hyundai Apt. Doryong-dong, Yusong-ku, Taejeon Korea**

Citizenship: **Korean**

Post Office Address: **Same as Residence**

Full name of third inventor: **Seokhee Yoon**

Inventor's signature: *Yoon Seokhee*

Date: Mar. 7, 2002

Residence: **#302-904 Songkang Green Apt. Songkang-dong, Yusong-ku, Taejeon Korea**

Citizenship: **Korean**

Post Office Address: **Same as Residence**

Full name of fourth inventor: **Jae soon Bae**

Inventor's signature: *Jae Soon Bae*

Date: Mar. 7, 2002

Residence: **#108-110 Chowon Apt. Manyun-dong, Seo-ku, Taejeon Korea**

Citizenship: **Korean**

Post Office Address: **Same as Residence**

Full name of fifth inventor: **Youn-Gu Lee**

Inventor's signature: *Youn Gu Lee*

Date: Mar. 7, 2002

Residence: **#247-184 Seogyo-dong, Mapo-ku, Seoul Korea**

Citizenship: **Korean**

Post Office Address: **Same as Residence**

Full name of sixth inventor: **Sung Gap Im**

Inventor's signature: *Sung Gap Im*

Date: Mar. 7, 2002

Residence: **#105-405 Chowon Apt. Manyun-dong, Seo-ku, Taejeon Korea**

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Attorney's Docket No. MUTU12.001AUS

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Citizenship: **Korean**Post Office Address: **Same as Residence**Full name of seventh inventor: **Jieun Kim**Inventor's signature: Jieun Kim Date: Mar. 7, 2002Residence: **#7-403 LG Apt. Doryong-dong, Yusong-ku, Taejeon Korea**Citizenship: **Korean**Post Office Address: **Same as Residence**Full name of eighth inventor: **Jae Chol Lee**Inventor's signature: Jae Chol Lee Date: Mar. 7, 2002Residence: **#8-107 LG Apt. Doryong-dong, Yusong-ku, Taejeon, Korea**Citizenship: **Korean**Post Office Address: **Same as Residence**

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Send Correspondence To:

KNOBBE, MARTENS, OLSON &amp; BEAR, LLP

Customer No. 20,995

MUTU12.001AUS

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Kim et al.	)
			)
App. No.	:	Unknown	)
			)
Filed	:	Herewith	)
			)
For	:	DOUBLE-SPIRO ORGANIC	)
		COMPOUNDS AND ORGANIC	)
		ELECTROLUMINESCENT	)
		DEVICES USING THE SAME	)
			)
Examiner	:	Unknown	)

ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

United States Patent and Trademark Office  
 PO Box 2327  
 Arlington, VA 22202

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventors to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone

App. No. : Unknown  
Filed : Herewith

(949) 760-0404, **Customer No. 20,995**, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

Dated: Mar 7, 2002

LG Chem, Ltd.

By: 

Officer's name: No, ki-ho

Title: President

Address: 20 Yoido-dong  
Youngdungpo-ku  
Seoul Korea

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020802

Application No.: Unknown  
Filing Date: Herewith

PATENT  
Client Code: MUTU12.001AUS  
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### ASSIGNMENT

WHEREAS, We, Kong Kyeom Kim, a Korea citizen, residing at #107-703 Expo Apt. Jeonmin-dong, Yusong-ku, Taejeon Korea, Sehwan son, Korea, #102-704 Hyundai Apt. Doryong-dong, Yusong-ku, Taejeon Korea, Seokhee Yoon, Korea, 302-904 Songkang Green Apt. Songkang-dong, Yusong-ku, Taejeon Korea, Jae Soon Bae, Korea, #108-110 Chowon Apt. Manyun-dong, Seo-ku, Taejeon, Korea, have invented certain new and useful improvements in a **DOUBLE-SPIRO ORGANIC COMPOUNDS AND ORGANIC ELECTROLUMINESCENT DEVICES USING THE SAME** for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, LG Chem, Ltd. (hereinafter "ASSIGNEE"), a Corporation, with its principal place of business at 20 Yoido-dong, Youngdungpo-ku, Seoul Korea, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in light of good and valuable consideration the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Date: Mar. 7, 2002

Signature: Kong Kyeom Kim  
Kong Kyeom Kim

Date: Mar. 7, 2002

Signature: Sehwan Son  
Sehwan Son

Date: Mar. 7, 2002

Signature: Seokhee Yoon  
Seokhee Yoon

Date: Mar. 7, 2002

Signature: Jae Soon Bae  
Jae Soon Bae

Application No.: Unknown  
Filing Date: Herewith

PATENT  
Client Code: MUTU12.001AUS  
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Date: Mar. 7. 2002

Signature: Youn-Gu Lee  
Youn-Gu Lee

Date: Mar. 7. 2002

Signature: Sung Gap Im  
Sung Gap Im

Date: Mar, 7, 2002

Signature: Jieun Kim  
Jieun Kim

Date: Mar. 7, 2002

Signature: Jae Chol Lee  
Jae Chol Lee

DO NOT RECORD